



PATENT
ATTORNEY DOCKET NO.: MBM1420

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Mills and Jandt	Art Unit:	2885
Serial No.:	09/509,433	Examiner:	I. Negron
Filed:	May 30, 2000	Confirmation No.	9540
Title:	OPTICAL IRRADIATION DEVICE HAVING LED AND HEAT PIPE (Amended)		

MAIL STOP RCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application these document listed on the attached Form PTO 1449A. The Examiner is requested to make these documents of record.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on **March 29, 2007**, in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Karen LePari

Karen LePari

In re Application of
Mills and Jandt
Application No.: 09/509,433
Filed: May 30, 2000
Page 2

PATENT
Attorney Docket No.: MBM1420

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed before the mailing of a first Office Action on the merits. Check number 585227 in the amount of \$395.00 is enclosed as payment for the Request for Continued Examination fee. If any additional fees are required, authorization is hereby given to charge the amount of any such fee, or credit any overpayment, to Deposit Account No. 07-1896 referencing the above-identified attorney docket number. A copy of the Transmittal Sheet is enclosed.

Respectfully submitted,

Date: March 29, 2007



Michael R. Shevlin, J.D.
Registration No. 38,724
Telephone: (858) 638-6608
Facsimile: (858) 677-1465

DLA PIPER US LLP
4365 Executive Drive, Suite 1100
San Diego, California 92121-2133
USPTO Customer Number 28213



Substitute for form 1449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **ONE** of **THREE**

Complete if Known

Application Number	09/509,433
Filing Date	July 7, 2005
First Named Inventor	Robin Walter Mills
Art Unit	2885
Examiner Name	I. Negron
Attorney Docket Number	MBM1420

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5474449	1995-12-12	Loge et al.	
		4822335	1989-04-18	Kawai et al.	
		5169632	1992-12-08	Duell et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ⁴ (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
	1	DE 295 11 927 U1	1997-02-02	THERA Patent GmbH & Co.		
	2	EP 0 116 405 A1	1984-08-22	Co-Steel International Limited		
	3	EP 0 266 038 B1	1991-10-23	Kureha Kagaku Kogyo Kabushiki Kaisha		
	4	EP 0 320 080 B1	1993-08-04	Omega Universal Limited		
	5	EP 0 672 435 A1	1995-09-20	Amron Ltd.		
	6	EP 0 678 282 A2	1995-10-25	Minnesota Mining & Manufacturing Co.		
	7	EP 0 755 662 A1	1997-01-29	THERA Patent GmbH & Co.		
	8	EP 0 780 103 A2	1997-06-25	Heraeus Kulzer GmbH		
	9	CA 2 190 225	1997-06-23	Canada		
	10	EP 0 879 582 A2	1998-11-25	EKA Gesellschaft		
	11	GB 2 212 010 A	1989-07-12	Amcor Ltd.		
	12	GB 2 329 756 A	1999-03-31	University of Bristol		
	13	EP 709 698	1996-05-01	Demetron Research Corp.		
	14	JP 8141001 A	1996-06-04	Osada Res Inst Ltd		
	15	JP 8194786 A	1997-07-30	ABO SYS KK		
	16	JP 51-42607	1976-04-10	Dainippon Printing Co. Ltd.		
	17	WO 00/13608 A1	2000-03-16	Akeda Dental A/S		
	18	WO 01/14012 A1	2001-03-01	Thomas Russell		
	19	WO 00/15296 A1	2000-03-23	Light Sciences Limited Partnership		
	20	WO 00/02491 A1	2000-01-20	Harth et al.		
	21	WO 83/01311 A1	1983-04-14	Quentron Optics Pty. Ltd.		
	22	WO 95/07731 A1	1995-03-23	EFOS Canada Inc.		
	23	WO 99/35995 A1	1999-07-22	Kerr Coporation		
	24	WO 84/04463 A1	1984-11-22	MTA Közpointi Fizikai Kutató Intézet		
	25	WO 92/02275 A1	1992-02-20	Iris Roller		
	26	WO 93/09847 A1	1993-05-27	Erik Larsen		
	27	WO 93/21842 A1	1993-11-11	Quadra Logic Technologies, Inc.		
	28	WO 95/19810 A1	1995-07-27	Biolight Patent Holding AB		
	29	WO 95/26217 A1	1995-10-05	Maef S.R.I.		

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet TWO of THREE

Complete if Known

Application Number	09/509,433
Filing Date	July 7, 2005
First Named Inventor	Robin Walter Mills
Art Unit	2885
Examiner Name	I. Negron
Attorney Docket Number	MBM1420

30	WO 97/36552 A1	1997-10-09	Nulite Systems International Pty. Ltd.		
31	WO 97/37722 A1	1997-10-16	Bagraev et al.		
32	WO 97/46279 A1	1997-12-11	Biolight Patent Holding AB		
33	WO 97/46280 A1	1997-12-11	Biolight Patent Holding AB		
34	WO 98/03131 A1	1998-01-29	Minnesota Mining & Manufacturing Co.		
35	WO 98/04317 A1	1998-02-05	Light Sciences Limited Partnership		
36	WO 99/11324 A1	1999-03-11	Asah Medico		
37	WO 99/20346 A1	1999-04-29	Light Sciences Limited Partnership		
38	WO 99/09071 A1	1999-02-25	Ultradent Products, Inc.		
29	WO 00/01464 A2	2000-01-13	Filterwerk Mann/Hummel GmbH		
40	GB 2 218 636 A	1989-11-22	Rhys ap Iwelyn Phillips		
41	JP 6285508 A	1994-10-11	Kawaski Steel Co.		
42	JP 7163863 A	1995-06-27	Minnesota Mining & Mfg.		
43	WO 00/13608 A1	2000-03-16	Akeda Dental		
44	DE 100 10 638 A1	2000-03-03	OSRAM Opto Semi - conductors GmbH & Co. oHG		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue Number(s), publisher, city and/or country where published.	T ²
	1	LumiLeds Lighting LLC, <u>Lumen Maintenance of White Luxeon™ Power Light Sources</u> , Application Brief AB07, LumiLeds Lighting, US LLC	
	2	LumiLeds Lighting LLC, <u>Application Breif AB20-5, replaces AN1149-5, Secondary Optics Design Considerations for Super Flux LEDs</u> , Copyright© 2002 LumiLeds Lighting, Publication No. AB20-5	
	3	BURGESS, JOHN et al., <u>An Evaluation of Four Light-curing Units Comparing Soft and Hard Curing</u> , Pract. Periodont. Aesthet. Dent. 11(1), 125-132, 1999	
	4	FELTZER, A.J. et al., <u>Influence of Light Intensity on Polymerization Shrinkage and Integrity of Restoration-cavity Interface</u> , Eur. J. Oral Sciences, 103, 322-326, 1995	
	5	KANCA, III, JOHN et al., <u>Pulse Activation:Reducing Resin-Based Composite Contraction Stresses at the Enamel Cavitysurface Margins</u> , Am. J. of Dentistry, 12(3), 107-112, 1999	
	6	KATO, HIROMASA, <u>Relationship Between the Velocity of Polymerization and Adaption to Dentin Cavity Wall of Light-Cured Composite</u> , Dental Materials J. 6(1), 32-37, 1987	
	7	KORAN, PETER et al., <u>Effect of Sequential Versus Continuous Irradiation of a Light-Cured Resin Composite on Shrinkage, Viscosity, Adhesion, and Degree of Polymerization</u> , Am. J. of Dentistry, 11, No. 1, 17-22, 1998	
	8	MAYES, JOE H., <u>Curing Lights: An Overview</u> , Ormco, vol. 9, No. 2, 2000, pg. 15-17	

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(use as many sheets as necessary)*Sheet **THREE** of **THREE****Complete if Known**

Application Number	09/509,433
Filing Date	July 7, 2005
First Named Inventor	Robin Walter Mills
Art Unit	2885
Examiner Name	I. Negron
Attorney Docket Number	MBM1420

9	MEHL, A. et al., <u>Physical Properties and Gap Formation of Light-Cured Composites With and Without 'Softstart-Polymerization'</u> , J of Dentistry, 25, 321-330, 1997	
10	SAKAGUCHI, RONALD L. et al., <u>Recuded Light Energy Density Decreases Post-Gel Contraction While Maintaining Degree of Conversion in Composites</u> , J. of Dentistry, 26, 695-700, 1998	
11	SCHLAGER, KENNETH J., et al., <u>An LED-Array Light Source for Medical Therapy</u> , SPIE Vol. 1892, Medical Lasers and Systems II, p. 26-35, 1993	
12	SWIFT JR., EDWARD et al., <u>Contemporary Photocuring Issues, Part II</u> , J. Esthetic Dentistry, 12(1), 50-57 2000	
13	TARLE, Z. et al., <u>The Effect of the Photopolymerization Method on the Quality of Composite Resin Samples</u> , J. of Oral Rehab, 25, 436-442, 1998	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-pto-9199 (1-800-786-9199) and select option 2.